Author Index

Allert, S., see Hannaert, V., 115
Alpers, M.P., see Qari, S.H., 105
Archer, S., see Pica-Mattoccia, L., 167

Barale, J.-C., see Langsley, G., 221
Barbot, P., see Langsley, G., 221
Bass, K.E., see Kuntz, D.A., 95
Beverley, S.M., see Wilson, K., 197
Blaauw, M., see Hannaert, V., 115
Blisnick, T., see Langsley, G., 221
Boga, J.A., see Marín, M.S., 155
Braun-Breton, C., see Langsley, G., 221

Campbell, D.A., see Wong, S., 187
Casais, R., see Marín, M.S., 155
Chiari, E., see Macedo, A.M., 147
Cioli, D., see Pica-Mattoccia, L., 167
Craig III, S.P., see Kuntz, D.A., 95

Dalrymple, B.P., see Kung'u, M.W., 29
di Santi, S., see Qari, S.H., 105
Dluzewski, A.R., Nash, G.B., Wilson, R.J.M., Reardon, D.M. and Gratzer, W.B., Invasion of hereditary ovalocytes by *Plasmodium falciparum* in vitro and its relation to intracellular ATP concentration, 1
Donachie, S., see Harnyuttanakorn, P., 177
Donelson, J.E., see Zeng, W., 207

Ebert, F., see Tannich, E., 225
Elgort, M.G., see Wong, S., 187
Ewbank, S.A., see Langford, C.K., 51

Fragoso, S.P. and Goldenberg, S., Cloning and characterization of the gene encoding *Trypanosoma cruzi* DNA topoisomerase II, 127

Goldenberg, S., see Fragoso, S.P., 127
Goldenberg, S., see Wincker, P., 217
Goldman, I.F., see Qari, S.H., 105
Gottesdiener, K., see Wong, S., 187
Gratzer, W.B., see Dluzewski, A.R., 1

Haldar, K., see Sanchez-Lopez, R., 9
Hamers, R., see Navarro, M., 65
Hannaert, V., Blaauw, M., Kohl, L., Allert, S., Opperdoes, F.R. and Michels, P.A.M., Molecular analysis of the cytosolic and glycosomal glyceraldehyde-3-phosphate dehydrogenase in *Leishmania mexicana*, 115
Hanson, S.S., see Langford, C.K., 51
Harnyuttanakorn, P., McBride, J.S., Donachie, S., Heidrich, H.-G. and Ridley, R.G., Inhibitory monoclonal antibodies recognise epitopes adjacent to a proteolytic cleavage site on the RAP-1 protein of *Plasmodium falciparum*, 177
Heidrich, H.-G., see Harnyuttanakorn, P., 177
Hines, S.A., Palmer, G.H., Jasmer, D.P., McGuire, T.C. and McElwain, T.F., Neutralization-sensitive merozoite surface antigens of *Babesia bovis* encoded by members of a polymorphic gene family, 85
Hines, S.A., see Jasmer, D.P., 75
Horstmann, R.D., see Tannich, E., 225

Jasmer, D.P., Reduker, D.W., Hines, S.A., Perryman, L.E. and McGuire, T.C., Surface epitope localization and gene structure of a *Babesia bovis* 44-kilodalton variable merozoite surface antigen, 75
Jasmer, D.P., see Hines, S.A., 85

Kaslow, D.C., see Langsley, G., 221
Koenig-Martin, E., Yamage, M. and Roditi, I., A procyclin-associated gene in *Trypanosoma brucei* encodes a polypeptide related to ESAG 6 and 7 proteins, 135
Kohl, L., see Hannaert, V., 115
Kung'u, M.W., Dalrymple, B.P., Wright, I.G. and Peters, J.M., Cloning and characterisation of members of a family of *Babesia bigemina* antigen genes containing repeated sequences, 29
Kuntz, D.A., Phillips, M.A., Moore, T.D.E., Craig III, S.P., Bass, K.E. and Wang, C.C., The translation initiation site of recombinant *Trypanosoma brucei* ornithine decarboxylase varies with different promotors, 95

Lal, A.A., see Qari, S.H., 105
Landfear, S.M., see Langford, C.K., 51
Langford, C.K., Ewbank, S.A., Hanson, S.S., Ullman, B. and Landfear, S.M., Molecular characterization of two genes encoding members of the glucose transporter superfamily in the parasitic protozoan *Leishmania donovani*, 51
Langsley, G., Kaslow, D.C., Barbot, P., Blisnick, T., Ponnudurai, T., Barale, J.-C. and Braun-Breton, C., A *Plasmodium falciparum* gene coding for a 15-kilodalton antigen expressed in asexual stage parasites, gametocytes and gametes, 221

Macedo, A.M., Martins, M.S., Chiari, E. and Pena, S.D.J., DNA fingerprinting of *Trypanosoma cruzi*: a new tool for characterization of strains and clones, 147
Maingon, R., see Navarro, M., 65
Marín, M.S., Prieto, M., Martín, J.M., Casais, R., Boga, J.A. and Parra, F., Identification and expression of a *Fasciola hepatica* gene encoding a gut antigen protein bearing repetitive sequencing, 155
Martín, J.M., see Marín, M.S., 155
Martins, M.S., see Macedo, A.M., 147
McBride, J.S., see Harnyuttanakorn, P., 177
McElwain, T.F., see Hines, S.A., 85
McGuire, T.C., see Hines, S.A., 85
McGuire, T.C., see Jasmer, D.P., 75
Michels, P.A.M., see Hannaert, V., 115
Michels, P.A.M., see Ter Kuile, B.H., 21
Moore, T.D.E., see Kuntz, D.A., 95
Murto-Dovales, A.C., see Wincker, P., 217
Myler, P.J., see Tripp, C.A., 39

Nash, G.B., see Dluzewski, A.R., 1
Navarro, M., Maingon, R., Hamers, R. and Segovia, M., Dynamics and size polymorphisms of minichromosomes in *Leishmania major* LV-561 cloned lines, 65

Opperdoes, F.R., see Hannaert, V., 115
Opperdoes, F.R., see Ter Kuile, B.H., 21

Palmer, G.H., see Hines, S.A., 85
Parra, F., see Marín, M.S., 155
Pena, S.D.J., see Macedo, A.M., 147

Perryman, L.E., see Jasmer, D.P., 75
Peters, J.M., see Kung'u, M.W., 29
Phillips, M.A., see Kuntz, D.A., 95
Pica-Mattoccia, L., Archer, S. and Cioli, D., Hycanthone resistance in schistosomes correlates with the lack of an enzymatic activity which produces the covalent binding of hycanthone to parasite macromolecules, 167
Ponnudurai, T., see Langsley, G., 221
Povoa, M.M., see Qari, S.H., 105
Prieto, M., see Marin, M.S., 155

Qari, S.H., Goldman, I.F., Povoa, M.M., di Santi, S., Alpers, M.P. and Lal, A.A., Polymorphism in the circumsporozoite protein of the human malaria parasite *Plasmodium vivax*, 105

Reardon, D.M., see Dluzewski, A.R., 1
Reduker, D.W., see Jasmer, D.P., 75
Ridley, R.G., see Harnyuttanakorn, P., 177
Roditi, I., see Koenig-Martin, E., 135

Sanchez-Lopez, R. and Haldar, K., A transferrin-independent iron uptake activity in *Plasmodium falciparum*-infected and uninfected erythrocytes, 9
Segovia, M., see Navarro, M., 65
Stuart, K.D., see Tripp, C.A., 39

Tannich, E., Ebert, F. and Horstmann, R.D., Molecular cloning of cDNA and genomic sequences coding for the 35-kilodalton subunit of the galactose-inhibitable lectin of pathogenic *Entamoeba histolytica*, 225
Ter Kuile, B.H., Wiemer, E.A.C., Michels, P.A.M. and Opperdoes, F.R., The electrochemical proton gradient in the bloodstream form of *Trypanosoma brucei* is dependent on the temperature, 21
Tripp, C.A., Wisdom, W.A., Myler, P.J. and Stuart, K.D., A multicopy, extrachromosomal DNA in *Leishmania infantum* contains two inverted repeats of the 27.5-kilobase LD1 sequence and encodes numerous transcripts, 39

Ullman, B., see Langford, C.K., 51
Ullman, B., see Wilson, K., 197

Wang, C.C., see Kuntz, D.A., 95
Wiemer, E.A.C., see Ter Kuile, B.H., 21
Wilson, K., Beverley, S.M. and Ullman, B., Stable amplification of a linear extrachromosomal DNA in mycophenolic acid-resistant *Leishmania donovani*, 197
Wilson, R.J.M., see Dluzewski, A.R., 1
Wincker, P., Murto-Dovales, A.C. and Goldenberg, S., Nucleotide sequence of a representative member of a *Trypanosoma cruzi* dispersed gene family, 217
Wisdom, W.A., see Tripp, C.A., 39
Wong, S., Elgort, M.G., Gottesdiener, K. and Campbell, D.A., Allelic polymorphism of the *Trypanosoma brucei* polyubiquitin gene, 187
Wright, I.G., see Kung'u, M.W., 29

Yamage, M., see Koenig-Martin, E., 135

Zeng, W. and Donelson, J.E., The actin genes of *Onchocerca volvulus*, 207

Subject Index

5′ UTR, 135

α-Amanitin resistance, 135
Adenosine triphosphate, 1
Allele, 187
Amino acid repeats, 155
Antigen, 221
Antigenic diversity, 85
Antigenic variation, 75

Babesia bigemina, 29
Babesia bovis, 75
Bab R, 75
BabR, 85

Carbohydrate binding, 225
cDNA library, 155
Cellular adherence, 225
Chagas' disease, 127, 147
Circular DNA, 39
Circumsporozoite protein, 105
Clonal typing, 105
Compartmentalisation, 115

DNA fingerprinting, 147
DNA topoisomerase II, 127
Desferrioxamine, 9
Developmental regulation, 51
Drug resistance, 167
Drug resistance, 197

Electrochemical proton gradient, 21
Entamoeba histolytica, 225
Enzymatic activation, 167
Epitope mapping, 177
Epitope polymorphism, 105
Erythrocyte metabolism, 1
Extrachromosomal element, 197

Facilitated diffusion, 9
Fasciola hepatica, 155
Fusion protein, 155

Gamete, 221
Gametocyte, 221
Gene amplification, 197
Gene cloning, 127
Gene cluster, 207
Gene family, 29, 217
Gene rearrangement, 85
Genomic organisation, 39
Genomic sequence, 225
Glucose transporter superfamily, 51
Glyceraldehyde-3-phosphate dehydrogenase, 115
Glycosome, 115
Gut antigen, 155

Hycanthone, 167

IMP dehydrogenase, 197
Inhibitory monoclonal antibody, 177
Intron, 207, 221
Isoenzymes, 115

Leishmania donovani, 197
Leishmania major, 65
Leishmania mexicana, 115
Leishmania, 39, 51

MSA-1, 85
MSA-2, 85
Malaria, 1, 177, 221
Malarial parasite, 9
Membrane fluidity, 21
Merozoite surface antigen, 75
Minichromosome, 65
Minisatellite, 147
Molecular karyotype, 65
mRNA structure, 95
Multicopy DNA, 39

Neomycin (G418) resistance, 187
Non-haem iron chelator, 9
Non-haem iron uptake, 9

Ovalocyte, 1
Ornithine decarboxylase, 95
Oxamniquine, 167

pH dependence, 21
Plasmodium falciparum, 1, 177, 221
Plasmodium vivax, 105
Polymerase chain reaction, 51
Precursor RNA, 207
Primer extension, 207
Procyclin-associated gene, 135
Pulsed field gel electrophoresis, 65, 197

RAP-1, 177
Receptor, 225
Recombinant expression, 95
Repeated DNA, 217
Repetitive antigen, 29
Restriction fragment length polymorphism, 187
Rhoptry, 177

Schistosome, 167
Schizodeme, 147
Spliced leader, 207
Stage-specific, 135
Surface epitope, 75

Temperature dependence, 21
Trans-splicing, 95
Transferrin-independent, 9
Trypanosoma brucei, 95, 135, 187
Trypanosoma cruzi, 127, 147, 217

Ubiquitin, 187